Amendment to the Abstract

Please amend the Abstract in the application as filed as follows:

~~The subject of the invention is a~~ A method and apparatus for detecting and automatically identifying defects in technical equipment~~, applicable in diagnosing defects in technical equipment, and especially rotational machinery~~ is disclosed. ~~The method consists in measuring measurement~~ Measurement signals varying in time are ~~and downloading the~~ ~~The results of the measurements~~ downloaded as ~~in the form of~~ spectrograms to ~~the~~ a computer memory ~~of a computer. In the first stage peaks of amplitude values bigger than a specified amplitude threshold value are selected from spectrograms, of which peaks~~ Using a predetermined criteria a set of designated peak values is created. ~~Next, the ratio of the frequency of each peak to the frequencies of the other peaks is calculated, whereupon, depending on the value of the obtained quotient,~~ Using another predetermined criteria the set of designated peak values is divided into two subsets. ~~In the second stage,~~ Then in one of the subsets, peak groups differing from each other by the basic frequency values are distinguished. The second subset, created from the set of designated peak values, is searched for the presence of sidebands for peaks from each specified peak group and if the sidebands are present ~~presence of sidebands is found,~~ the basic frequency of the sidebands is calculated. Then~~, in stage three,~~ the existence of a defect in the technical equipment is detected~~, which is then~~ and identified by comparing the basic frequencies and the basic frequencies of the sidebands with the frequency values collected in the computer memory ~~of the computer device~~.